

Figure 1

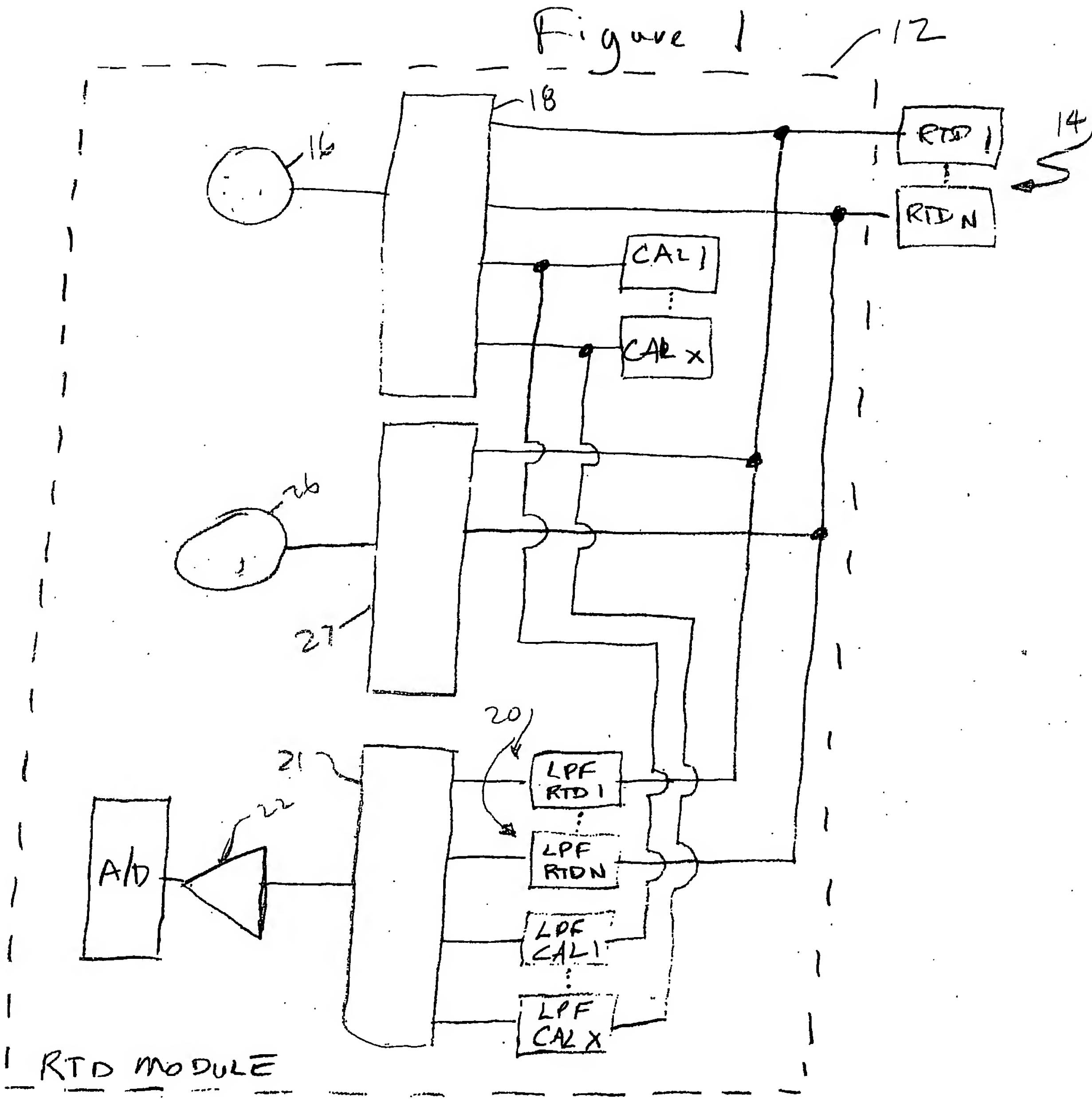


Figure 2

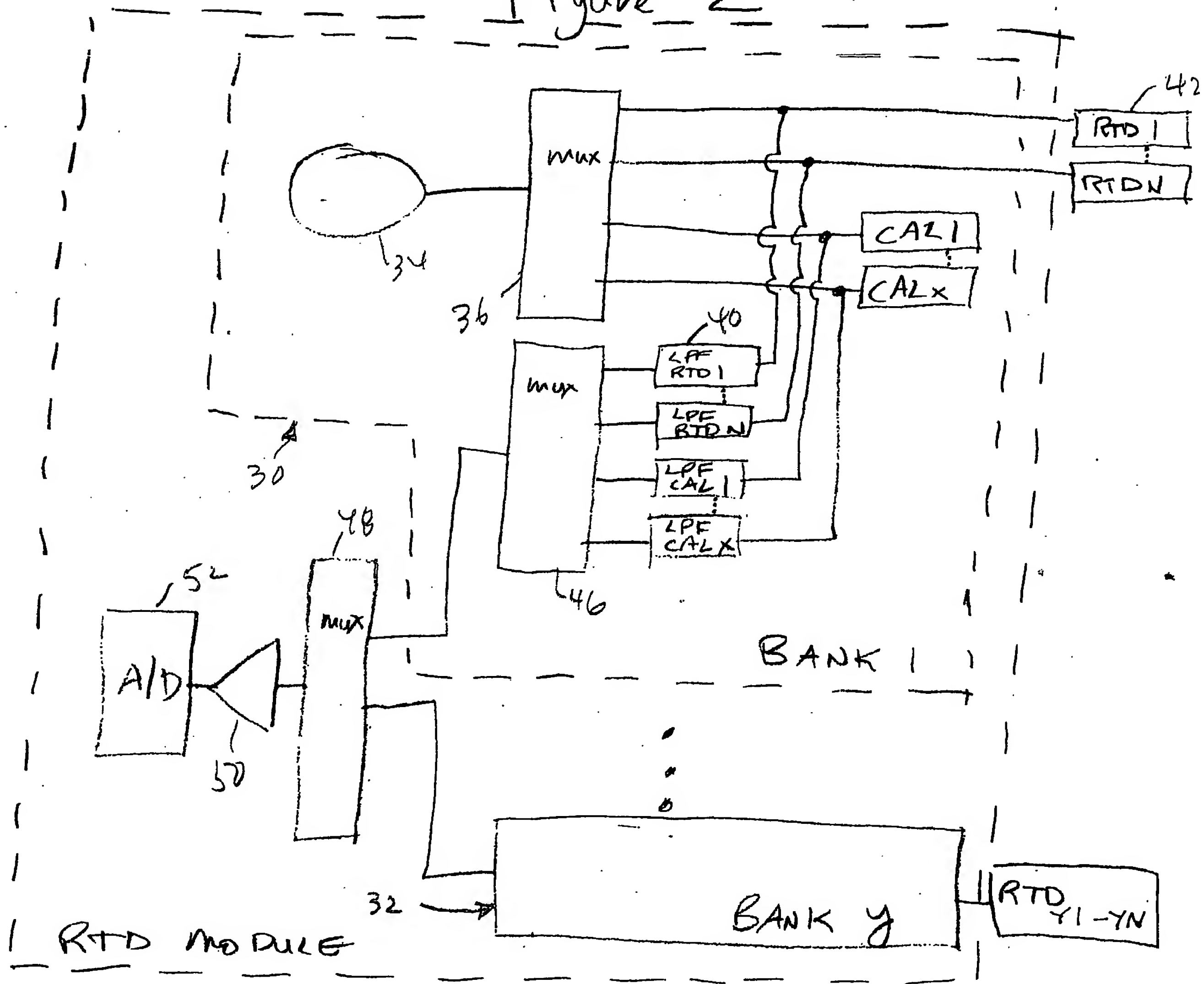


FIG 3

1. At power up, turn on the current sources and switch the multiplexers to charge the low pass filters of the first RTD in each of the four banks.
2. Wait a predetermined time (which is less than the time required to fully charge the filters).
3. Sample RTD#1.
4. Switch bank 1 source to charge RTD#2 low pass filter.
5. Sample RTD#4.
6. Switch bank 2 source to charge RTD#5 low pass filter.
7. Sample RTD#7.
8. Switch bank 3 source to charge RTD#8 low pass filter.
9. Sample RTD#10.
10. Switch bank 4 source to charge RTD#11 low pass filter.
11. Sample RTD#2.
12. Switch bank 1 source to charge RTD#3 low pass filter.
13. Sample RTD#5.
14. Switch bank 2 source to charge RTD#6 low pass filter.
15. Sample RTD#8.
16. Switch bank 3 source to charge RTD#9 low pass filter.
17. Sample RTD#11.
18. Switch bank 4 source to charge RTD#12 low pass filter.
19. Sample RTD#3.
20. Switch bank 1 source to charge calibration resistor low pass filter.
21. Sample RTD#6.
22. Switch bank 2 source to charge calibration resistor low pass filter.
23. Sample RTD#9.
24. Switch bank 3 source to charge calibration resistor low pass filter.
25. Sample RTD#12.
26. Switch bank 4 source to charge calibration resistor low pass filter.
27. Sample bank 1 calibration resistor.
28. Switch bank 1 source to RTD#1
29. Sample bank 2 calibration resistor.
30. Switch bank 2 source to RTD#4
31. Sample bank 3 calibration resistor.
32. Switch bank 3 source to RTD#7
33. Sample bank 4 calibration resistor.
34. Switch bank 4 source to RTD#10
35. Go to step #3